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MATERIAL SAFETY DATA SHEET					
PRODUCT NAME (as it appears on label)		MSDS OF 10%POVIDONE IODINE SOLUTION		DESCRIPTION: A topical antiseptic.	
ISSUED BY:		Fred Wang		DATE PREPARED:	Feb. 25 th ,2022
HEALTH HAZARDS:		Cause allergic action, stimulation on skin and mucus, adverse action is rare. But external used on the pregnant, lactating women and infant will cause obvious iodine absorption, local irritation and burning sensation, they are common reactions. The large area and long term application cause neutropenia, severe burns patients can cause metabolic acidosis, liver damage, contact dermatitis, hypothyroidism and iodine poisoning. Contact a POISON CONTROL CENTER if ingested.			
PHYSICAL HAZARDS:		Slight Irritation of the mucous membrane, no corrosion, and low toxicity.			
PHYSICAL FORM:		Soluble in water or alcohol			
APPEARANCE:		Red brown Liquid, Weak odor.			
ODOR:		Slight odor			
HMIS RATING (concentrate)		HEALTH: 2	REACTIVITY: 0	FLAMMABILITY: 0	PERSONAL: 0
HAZARD RATING: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B = Safety Glasses & Gloves					
SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS					
HAZARDOUS COMPONENTS (Specific Chemical Identity: Common Names)	CAS #'s	OSHA PEL	ACHIH TLV	Other Limits Recommended	% (Optional)
Povidone Iodine	25655-41-8				10%
Citric acid	77-92-9				0.1%
Alkyl glucoside	383178-66-3				0.2%
Sodium Hydroxide	1310-73-2				0.3%
Purified Water	7732-18-5				89.4%
N/A = Not Applicable N/E = Not Established N/D = Not Determined N/L = Not Listed					

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Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)

EYE:	May cause eye irritation
SKIN:	Systemic effects by skin contact include hemorrhage and allergic dermatitis.
INHALATION (BREATHING):	May cause respiratory tract irritation.
INGESTION (SWALLOWING):	May cause irritation of the digestive tract.
EXPOSURE EFFECTS	Headache, dizziness, confusion, delirium, and hallucinations may be noted following severe intoxication. Seizure has been reported following mediastinal irrigation
CANCER:	N/A
TARGET ORGANS:	N/A
DEVELOPMENTAL:	N/A
OTHER COMMENTS:	N/A
PRE-EXISTING MEDICAL CONDITIONS:	N/A

SECTION 4 - FIRST AID MEASURES

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
SKIN:	Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.
INHALATION (BREATHING):	Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION (SWALLOWING):	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
NOTE TO PHYSICIANS:	·Keep victim warm and quiet.

SECTION 5 - FIREFIGHTING MEASURES

UNUSUAL FIRE & EXPLOSION HAZARDS:	N/A
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FIREFIGHTING INSTRUCTIONS:	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire
SECTION 6- ACCIDENTAL RELEASE MEASURES	
IF SPILLED/RELEASED:	Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation
SECTION 7- HANDLING AND STORAGE	
HANDLING & STORAGE:	<ul style="list-style-type: none"> ·Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation ·Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store in air tight containers..
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION	
RESPIRATORY PROTECTION:	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
SKIN PROTECTION:	Wear appropriate protective gloves to prevent skin exposure
EYE/FACE PROTECTION:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
OTHER PROTECTIVE EQUIPMENT:	Clothing: Wear appropriate protective clothing to prevent skin exposure.
SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES	
Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm)	
FLASH POINT:	93.9°C
FLAMMABLE/EXPLOSIVE LIMITS (%):	Not available
AUTO IGNITION TEMPERATURE:	Not available
APPEARANCE:	Yellowish-brown amorphous hygroscopic powder.
PHYSICAL STATE:	Power
ODOR:	Slight odor
MELTING POINT:	300°C
VAPOR PRESSURE (mm Hg):	0.132mmHg at 25°C
BOILING POINT:	Not available
FREEZING/MELTING POINT:	Not available
SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	Not available

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EVAPORATION RATE (nBuAc=1):	Not available
SECTION 10 - STABILITY & REACTIVITY	
CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	N/A
INCOMPATIBLE MATERIALS:	Ether, chloroform, acetone, ethylene oxide and carbon tetrachloride
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
HAZARDOUS POLYMERIZATION:	N/A
SECTION 11 - TOXICOLOGICAL INFORMATION	
<p>The concentrations used clinically (0.1 to 20%) are toxic for granulocytes and monocytes. Povidone-iodine was cytotoxic to SH-SY5Y (neuronal) and RSC96 (Schwann) cells.</p> <p>Povidone-Iodine preparation was ototoxic in guinea pigs.</p>	
SECTION 12 – ECOLOGICAL INFORMATION	
<p>ENVIRONMENTAL MOBILITY</p> <ul style="list-style-type: none"> · This product is water soluble and is expected to remain primarily in water. <p>ENVIRONMENTAL DEGRADABILITY</p> <ul style="list-style-type: none"> · This product Oxides of nitrogen, irritating and toxic fumes and gases, iodine. · This substance is expected to be removed in a waster water treatment facility. <p>ECOTOXICITY AND BIOACCUMULATION</p> <ul style="list-style-type: none"> · Low acute toxicity to aquatic organisms is expected. 	
SECTION 13 - DISPOSABLE CONSIDERATIONS	
<p>The following advice only applies to the product as supplied.</p> <p>Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities.</p> <p>Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.</p> <p>Care should in any case be taken to ensure compliance with national and local regulations.</p> <p>This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers.</p> <p>This product should be disposed of in accordance with all applicable local and national regulations and to dispose of containers with care.</p> <p>This material, as supplied, is not hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine, whether the altered material is hazardous waste. Consult appropriate state, regional, or local regulations for additional requirements.</p> <p>Dispose of in accordance with local regulations.</p>	
SECTION 14 - TRANSPORT INFORMATION	
<p>Dangerous goods code:N/A UN code:N/A</p> <p>This preparation is not classified as 'Hazardous' for transport purposes. IMO/IMDG not regulated</p>	



Packaging groups:/

SECTION 15 - REGULATORY INFORMATION

COMPONENT

GOVERNING DIRECTIVE:

Dangerous Substances Directive 67/548/EC, as modified.

Warning:

- S07/09 Keep container tightly closed and in a ventilated place
- S16 Keep away from sources of ignition-No Smoking
- S24/25 Avoid contact with wound and eyes
- S26 In case of contact with eyes, flush immediately with plenty of water and seek medical advice
- S33 Take precautionary measures against static discharges
- S43B In case of fire, use sand, earth, chemical powder or alcohol type foam

EPA (CERCLA) Reportable Quantity:

SECTION 16 - OTHER INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of Amsino Healthcare (Shanghai) Co., Ltd. suppliers and may not have been independently verified by Amsino. Amsino is not responsible for errors or omissions in, or completeness of, the product information.

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